In the claims:

Please substitute the following full listing of claims, including new claim 45, for the claims as originally filed or most recently amended.

- 1. (Currently Amended) <u>A</u> An emitter controlled thyristor device package having a cathode terminal and an anode terminal, comprising:
- a thyristor device having a thyristor emitter, a thyristor collector, and a thyristor gate, said thyristor comprising alternating P-type and N-type semiconductor regions;
- a first discrete metal oxide semiconductor (MOS) transistor connected in series with said thyristor between said cathode terminal and said thyristor emitter;
- a second discrete MOS transistor connected between said cathode terminal and said thyristor gate, a gate terminal of said second MOS transistor connected to said cathode terminal; and

means for injecting electrons <u>current</u> into said thyristor <u>gate</u> for triggering said thyristor into a latching state;

wherein a first voltage applied to a gate terminal of said first MOS transistor causes a forward current to flow between said cathode terminal and said anode terminal turning said emitter controlled thyristor device package to an on state, and a zero to second voltage applied to said gate of said first MOS transistor turns said emitter controlled thyristor device package to an off state.

2. (Currently Amended) A An emitter controlled thyristor device package as recited in claim 1 further comprising a floating ohmic contact (FOC) for shorting said emitter and a source terminal of said first MOS transistor.

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- 3. (Currently Amended) A An emitter controlled thyristor device package as recited in claim 1 further comprising a metal strap for shorting said thyristor emitter and a source terminal of said first MOS transistor.
- 4. (Currently Amended) \underline{A} An emitter controlled thyristor device package as recited in claim 1, further comprising:
- a third MOS transistor having a source and a drain connected between said thyristor emitter and a thyristor lower base region, and
 - a gate connected to said cathode terminal.
- 5. (Currently Amended) A An emitter controlled thyristor device package as recited in claim 1 wherein said first MOS transistor comprises a PMOS transistor, and said second MOS transistor comprises a PMOS transistor.
- 6. (Currently Amended) \underline{A} An emitter controlled thyristor device package as recited in claim 4 wherein said first MOS transistor comprises a PMOS transistor, said second MOS transistor comprises a PMOS transistor, and said third MOS transistor comprises an NMOS transistor.
- 7. (Currently Amended) \underline{A} An emitter controlled thyristor device package as recited in claim 4 wherein said first MOS transistor comprises a NMOS transistor, said second MOS transistor comprises a PMOS transistor, and said third MOS transistor comprises an NMOS transistor.

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- 8. (Currently Amended) <u>A</u> An emitter controlled thyristor device package as recited in claim 4, further comprising
- a metal strap for shorting said thyristor emitter with one of a drain and source terminal of said first MOS transistor.
- 9. (Currently Amended) \underline{A} An emitter controlled thyristor device package as recited in claim 1, further comprising
- a diode connected between said gate of said first MOS transistor and said thyristor emitter.
- 10. 18. (Previously Canceled)
- 19. (Currently Amended) A gate turn-off (GTO) thyristor device package comprising:
 - a first metal plate;
 - a second metal plate;
- a third metal plate electrically insulated from said second metal plate;
- a thyristor sandwiched between said first metal plate and said second metal plate, a collector of said thyristor contacting said first metal plate acting as an anode for said GTO thyristor device package;
- a first discrete metal oxide semiconductor (MOS) transistor positioned on said second metal plate adjacent said thyristor, said first MOS transistor having a first terminal connected to an emitter of said thyristor and a second terminal connected to said third metal plate acting as a cathode for said GTO thyristor device package; and
- a second discrete MOS transistor positioned on said second metal plate adjacent said thyristor, said second MOS transistor having a first terminal connected to a gate of said thyristor, said second MOS transistor further having a second terminal and a gate terminal

connected to said third metal plate,

wherein a first voltage applied to a gate terminal of said first MOS transistor turns said thyristor to an on state causing a current to flow between said cathode and said anode, and a zero to second voltage applied to said gate of said first MOS transistor turns said thyristor device to an off state.

- 20. (Currently Amended) A gate turn-off (GTO) thyristor device package as recited in claim 19, further comprising a clamp means for holding said first, second and third metal plates together.
- 21. (Currently Amended) A gate turn-off (GTO) thyristor device package as recited in claim 19, wherein said first, second and third metal plates comprise copper plates.
- 22. (Currently Amended) A gate turn-off (GTO) thyristor device package as recited in claim 19, wherein said first and second discrete semiconductor switches are first and second MOS transistors, respectively, and said first MOS transistor and said second MOS transistor are complementary.
- 23. (Currently Amended) A gate turn-off thyristor (GTO) device package comprising:
- a gate turn-off (GTO) thyristor comprising a thyristor gate, a thyristor emitter, and a thyristor collector forming an anode terminal;
- a first plurality of discrete switching devices connected in parallel <u>and</u> arranged in a circular fashion around said GTO thyristor, a first terminal of said <u>first plurality of</u> discrete switching devices connected to said thyristor emitter and a second terminal of said <u>first plurality of</u> discrete switching devices connected to a cathode terminal of said GTO

thyristor device package; and

a second plurality of discrete switching devices connected in parallel <u>and</u> arranged in a circular fashion around said GTO thyristor, a first terminal of said <u>second plurality of discrete</u> switching devices connected to said thyristor gate and a second terminal of said <u>second plurality of discrete</u> switching devices connected to said cathode terminal of said GTO device package,

wherein a first voltage applied to a gate terminal terminals of said first plurality of discrete switching devices turns said GTO thyristor to an on state causing a current to flow between said cathode terminal and said anode terminal, and a zero to second voltage applied to said gate terminals of said first plurality of discrete switching devices turns said GTO thyristor to an off state.

- 24. (Currently Amended) A gate turn-off thyristor (GTO) device package as recited in claim 23, further comprising:
- a first metal plate forming said cathode terminal; a second metal plate separated from said first metal plate by an insulation layer, wherein said GTO thyristor and said MOS transistors and said discrete switching devices of said first and second pluralities of discrete switching devices are positioned on said second metal plate, said first and second metal plates acting as a heat sink.
- 25. (Currently Amended) A gate turn-off thyristor (GTO) device package as recited in claim 23 further comprising a third metal plate forming an anode terminal of said GTO thyristor device package.

- 26. (Currently Amended) A gate turn-off thyristor (GTO) device package as recited in claim 23 wherein said discrete switching devices of said second plurality of discrete switching devices each comprise a MOS transistor transistors having respective gates a gate connected to said cathode or gate terminal.
- 27. (Currently Amended) A gate turn-off thyristor (GTO) device package as recited in claim 23 wherein said discrete switching devices of said second plurality of discrete switching devices comprise a diode.
- 28. (Currently Amended) A gate turn-off thyristor (GTO) device package as recited in claim 23 wherein said discrete switching devices of said second plurality of discrete switching devices comprise a diode connected in parallel with a capacitor.
- 29. (Currently Amended) A gate turn-off thyristor (GTO) device package as recited in claim 23 wherein said discrete switching devices of said second plurality of discrete switching devices comprise a Zener diode connected in parallel with a capacitor.
- 30. (Currently Amended) A gate turn-off thyristor (GTO) device package as recited in claim 23 wherein said discrete switching devices of said second plurality of discrete switching devices comprise a transistor connected in parallel with a capacitor.

- 31. (Currently Amended) A gate turn-off thyristor (GTO) device package as recited in claim 26 further comprising;
- a first feedback path connecting said gate of said MOS transistors to said thyristor emitter; and
- a second feedback path connecting said gate of said MOS transistors to said thyristor gate through a diode.
- 32. (Currently Amended) A gate turn-off thyristor (GTO) device package as recited in claim 23, further wherein said first discrete switching devices of said first plurality of discrete switching device comprise a MOS transistor, said thyristor device package further comprising:
- a feedback path connecting said gate of said MOS transistor to said thyristor emitter;
- a capacitor connected in parallel to said MOS switching device transistor connecting said second terminal of said MOS transistor to said thyristor gate.
- 33. 37. (Previously Canceled)
- 38. (Currently Amended) \underline{A} An emitter turn-off thyristor device package including
- a thyristor element having an anode terminal, an emitter terminal and a gate terminal,
- a first discrete semiconductor switch connected in series with said emitter terminal of said thyristor device by a first terminal of said first semiconductor switch,
- a second discrete semiconductor switch connected in series with said gate terminal of said thyristor device by a first terminal of said second discrete semiconductor switch; second terminals of said first and second discrete semiconductor switches being connected together, and

means for shorting said emitter of said thyristor element to a terminal of said first discrete semiconductor switch or for injecting electrons current into said thyristor gate for triggering said thyristor into a latching state;

wherein said first and second discrete semiconductor switches are arranged such that a signal of a first type applied to said first discrete electronic semiconductor switch turns said emitter turn-off thyristor element to an on-state and a signal of a second type applied to said first electronic semiconductor switch turns said emitter turn-off thyristor element to an off-state, and

wherein at least one of said first and second semiconductor switches is constituted by a plurality of semiconductor devices.

39. - 44. (Previously Canceled)

45. (New) A thyristor device package as recited in claim 1, wherein

a gate terminal of said second MOS transistor is connected to said cathode terminal.

46. (New) A thyristor device package as recited in claim 19, wherein

said second discrete MOS transistor further includes a gate terminal connected to said third metal plate.